WHAT IS CLAIMED IS:

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- An inverted-F metal plate antenna fixed on a ground conductor surface, comprising:
- a radiating conductor plate disposed opposing and substantially in parallel with the ground conductor surface;
- a power-feeding conductor plate extending substantially perpendicularly from an outer edge of the radiating conductor plate and connected to a power-feeding circuit; and
- a plurality of shorted conductor plates extending substantially perpendicularly from a plurality of points on outer edges of the radiating conductor plate and connected to the ground conductor surface;
- wherein the plurality of shorted conductor plates are

 15 disposed such that when power is supplied, a plurality of
 resonance modes with different resonant lengths is generated
 respectively in association with the plurality of shorted
 conductor plates.
- 2. An inverted-F metal plate antenna according to Claim
 1, wherein the plurality of shorted conductor plates is
 disposed at different distances from the power-feeding
 conductor plate.